

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization
International Bureau**



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/110538 A1

- (51) International Patent Classification⁷: A61M 15/00

(21) International Application Number: PCT/NL2004/000427

(22) International Filing Date: 16 June 2004 (16.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03076883.2 16 June 2003 (16.06.2003) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AI., AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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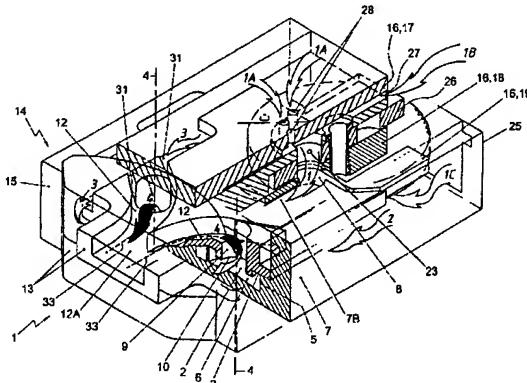
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(54) Title: DRY POWDER INHALER AND METHOD FOR PULMONARY INHALATION OF DRY POWDER



(57) Abstract: A breath actuated dry powder inhaler (1), comprising a substantially disc shaped air circulation chamber (2) for de-agglomeration of entrained powdered medicament using the energy of the inspiratory air stream. The chamber has a substantially circular or polygonal sidewall (3) extending about a central axis (4) between top (5) and bottom walls (6) of the chamber so that the height (h) of the chamber is smaller than its diameter (d). A plurality of air supply channels (7) disposed about the circumference of the chamber, which channels extend from joint or separate air inlets and which channels enter the chamber substantially tangentially to its sidewall. At least one of the supply channels extends through a powder dose supply region (8) of the inhaler. The chamber further comprises an air outlet (9) axially extending from a discharge opening (10) in the centre of the top or bottom wall of the chamber and connects to a discharge channel (12) that extends to a mouthpiece (13). The inhaler comprises at least one further air circulation chamber for de-agglomeration of entrained powdered medicament, the chambers being connected to the mouthpiece in parallel.